## Realizing an Armed Unmanned Ground System DoD Capability

DoD Need – There is no recognized DoD requirement other than FCS (Very large)
Challenge – Fielding a "natural extension of the soldier/marines reach on the battlefield"
Opportunity – Change the nature of combat by providing US forces an overmatch capability

### Status of Armed Unmanned Armed Ground System Development

The good news for every soldier and marine in combat today!



# Concept of Operations (CONOPS) Lethality

Serves as a natural extension of the soldier/marine in battle

- Remotely over watch suspected ambush/IED locations
   > day/night and all weather with no mission degradation due to mental fatigue or weather
- "Point man" during squad recon/movement to contact
- "First in" to buildings or doors suspected on being booby trapped/IED/direct fire
- "Escalation" capable Non-lethal, Less than lethal, lethal all on one platform

#### Concept of Operations (CONOPS) Force Protection

Preserving the force and other high value assets to fight another day

- Serves as the "unblinking eye", day and night to guard Forward Operating Bases (FOB), Fire bases, expeditionary airfields, and logistics supply points or ammunition dumps remotely – paired with other unattended ground sensors
- Serves as an over watch element or "first station" in a personnel or vehicle check point to provide stand off against suicide bombers
- Force multiplier by "adding" technical capability to stand guard you significantly decrease human requirement – allow soldiers/marines to rest or prepare for next mission instead of guard duty

## Concept of Operations (CONOPS) Situational Awareness

Projecting sensors to significantly increase combat effectiveness

- Provides sensor "stand-off" for the operator creating "tactical patience" that allows more deliberate fire/no-fire decisions
- Using on-board laser range finder, platform allows you to accurately target combatants with both direct and indirect means
- Eyes, ears and mouth Utilizing the five on-board camera systems, and loudhailer the platform acts as another remote sensor on the battlefield

### The Future is Bright and..... Full of Challenges

- Rules of Engagement (ROE)
- Requirements
- System Integration
  - Existing manned and unmanned systems
  - Common Operational systems
  - C3I systems
- Concept of Operations and Tactics, techniques and procedures (TTP) development